VERSION WITH MARKINGS TO SHOW CHANGES MADE

4. (amended) [The] A DNA [according to claim 1] encoding a receptor protein specifically recognizing bacterial DNA having an unmethylated CpG sequence, which hybridizes with the DNA [comprising a gene according to] of claim 3 under [a] stringent conditions.

7. (amended) [The] A DNA [according to claim 1] encoding a receptor protein specifically recognizing bacterial DNA having an unmethylated CpG sequence, which hybridizes with the DNA [comprising the gene according to] of claim 6 under [a] stringent conditions.

13. (amended) A fusion protein comprising the protein according to [any one of] claim[s] 8[to 12] fused with a marker protein and/or a peptide tag.

14. (amended) An antibody specifically bound to the protein according to [any one of] claim[s] 8 [to 12].

16. (amended) A host cell comprising an expression system expressing the protein according to [any one of] claim[s] 8 [to 12].

20. (amended) The non-human animal according to [any one of] claim[s] 17 [to 19] characterized in that a rodent animal is a mouse.

21. (amended) A method of preparing a cell expressing a protein having reactivity against bacterial DNA having an unmethylated CpG sequence characterized in that the DNA according to [any one of] claim[s] 1[to 7] is introduced into a cell wherein a gene function encoding a receptor protein specifically recognizing bacterial DNA having an unmethylated CpG sequence is destroyed on a chromosome.

26. (amended) A screening method for an agonist or an antagonist of a protein having reactivity against bacterial DNA having the unmethylated CpG sequence according to [either of] claim[s] 24 [or 25] using a mouse as a non-human animal.

27. (amended) An agonist or an antagonist of a receptor protein specifically recognizing bacterial DNA having an unmethylated CpG sequence obtained by the screening method for an agonist or an antagonist of a receptor protein specifically recognizing bacterial DNA having the unmethylated CpG sequence according to [any of] claim[s] 23 [to 26].

30. (amended) A kit used to diagnose a disease[s] in a test DNA sample, which disease is related to the deletion, substitution and/or addition in a sequence of DNA encoding a receptor protein specifically recognizing bacterial DNA having an unmethylated CpG sequence, which kit comprises the DNA according to claim 3. [which can compare a sequence of DNA encoding a receptor protein specifically recognizing bacterial DNA having an unmethylated CpG sequence in a test body with a sequence of bases in the DNA according to claim 3.]